## PATENT COOPERATION TREATY

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### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference G5443 PCT		FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No. PCT/EP2005/000450		International filing date (day/month/year) 18.01.2005		Priority date (day/month/year) 11.02.2004			
Inter	national Patent Classification (IPC) or	national classification and If	PC .				
B01	D53/94						
	Applicant UMICORE AG & CO. KG et al.						
1.	This report is the international pr Authority under Article 35 and tra	eliminary examination re ansmitted to the applican	port, established by the according to Article 3	nis International Preliminary Examining 36.			
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.						
3.	This report is also accompanied by ANNEXES, comprising:						
	a. Sent to the applicant and		· ·				
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	☐ sheets which superson beyond the disclosur Supplemental Box.	ede earlier sheets, but w e in the international app	hich this Authority con lication as filed, as inc	siders contain an amendment that goes licated in item 4 of Box No. I and the			
	b. (sent to the International	bles related thereto, in c	omputer readable forn	per of electronic carrier(s)) , containing a n only, as indicated in the Supplemental e Instructions).			
4.	This report contains indications i	elating to the following it	ems:				
	☐ Box No. I Basis of the op	pinion					
	☐ Box No. II Priority						
	☐ Box No. III Non-establishr	ment of opinion with rega	rd to novelty, inventive	e step and industrial applicability			
	☐ Box No. IV Lack of unity of	f invention					
		ement under Article 35(2 itations and explanations		ty, inventive step or industrial ement			
	☐ Box No. VI Certain docum	ents cited		•			
	☐ Box No. VII Certain defect	• •		,			
	Box No. VIII Certain observ	ations on the internation	al application				
Date	of submission of the demand		Date of completion of t	his report			
Date of Submission of the demand							
12.12.2005		02.02.2006					
Name and mailing address of the international preliminary examining authority:			Authorized Officer	"Michas Paloniamp.			
European Patent Office - P.B. 5818 Patentlaan 2			Bogaerts, M	M (1900)			
NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl							
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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/000450

	Bo	x No. I Basis of the report					
1.	Wit	With regard to the <b>language</b> , this report is based on the international application in the language in which it was illed, unless otherwise indicated under this item.					
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:  ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	hav	h regard to the <b>elements*</b> of the international application, this report is based on <i>(replacement sheets whice been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this ort as "originally filed" and are not annexed to this report):</i>					
	Des	scription, Pages					
	1-12	as originally filed					
	Cla	ims, Numbers					
	1-19	received on 12.12.2005 with letter of 12.12.2005					
	Dra	Drawings, Sheets					
	1/3-	3/3 as originally filed					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
3.		The amendments have resulted in the cancellation of:  ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):					
4.	□ hac Sup	This report has been established as if (some of) the amendments annexed to this report and listed below a not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the oplemental Box (Rule 70.2(c)).   the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):					
	*	If item 4 applies, some or all of these sheets may be marked "superseded."					

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/000450

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-19

No: Claims

Inventive step (IS)

Yes: Claims

Claims

1-19

No: Claims

Industrial applicability (IA)

Yes: Claims

No:

1-19

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item V:

Reference is made to the following documents:

D1: US-A1-2004/0001782

D2: WO-A-01/74476

- 1. The subject-matter of claim 1 differs from D1/D2 mainly in that the precious metal component exhibits a continuously varying concentration profile in three abutting regions as defined in the claim.
  - The subject-matter of claim 1 is thus new (Article 33(2) PCT).
- 2.1 The problem to be solved by the present invention appears to be to provide a catalyst with an improved resistance to aging (table on page 12).
- 2.2 D1 and D2 do not address such a problem, nor do they give a hint to the claimed solution.
- 2.3 The subject-matter of claim 1 involves an inventive step (Article 33(3) PCT).
- 3. Claim 11-13 relate to methods for making the catalyst of claim 1 and as such are also novel and inventive.

#### Re Item VIII:

- 1. By the deletion of "of the respective precious metal" in claim 1 it is no longer unambiguously clear that the "concentration" relates to the concentration of precious metal. However the claim has been interpreted in this way.
- 2. Although claims 11,12 and 13 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and/or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2005/000450